



IDT Clock Solutions for Intel Desktops

Chipset	Code Name	Category	Northbridge	Southbridge	Main Clock Spec	IDT Main Clock	IDT Alternate Main		Notes
							Clock	Buffer Spec	
X58	Tylersburg	Performance	82X58 IOH	ICH10	CK410B+, CK505 1.0	932S421 CV183-1	9LPRS525	NA	
X48	Bearlake	Performance	82X48 MCH	ICH9	CK505 1.0	CV183-1	9LPRS525	NA	
X38	Bearlake	Performance	82X38 MCH	ICH9	CK505 1.0	CV183-1	9LPRS525	NA	
975X	Glenwood	Performance	82975X MCH	ICH7	CK410/E	954101	954141	NA	
955X	Glenwood	Performance	82955X MCH	ICH7	CK410/E	954101	954141	NA	
							9LRS4200		
H55	Ibex Peak	Mainstream	82H55 PCH	NA	CK505 1.1	9LRS3187	9LRS4157	NA	
							9LRS4200,		
H57	Ibex Peak	Mainstream	82H57 PCH	NA	CK505 1.1	9LRS3187	9LRS4157	NA	
							9LRS4200,		
Q57	Ibex Peak	Mainstream	82Q57 PCH	NA	CK505 1.1	9LRS3187	9LRS4157	NA	
Q45	Eaglelake	Mainstream	82Q45 MCH	ICH10	CK505 1.0	CV183-1	9LPRS525	NA	
Q43	Eaglelake	Mainstream	82Q43 MCH	ICH10	CK505 1.0	CV183-1	9LPRS525	NA	
							9LRS4200,		
P55	Ibex Peak	Mainstream	82P55 PCH	NA	CK505 1.1	9LRS3187	9LRS4157	NA	
P45	Eaglelake	Mainstream	82P45 MCH	ICH10	CK505 1.0	CV183-1	9LPRS525	NA	
P43	Eaglelake	Mainstream	82P43 MCH	ICH10	CK505 1.0	CV183-1	9LPRS525	NA	
G45	Eaglelake	Mainstream	82G45 MCH	ICH10	CK505 1.0	CV183-1	9LPRS525	NA	
G43	Eaglelake	Mainstream	82G43 MCH	ICH10	CK505 1.0	CV183-1	9LPRS525	NA	
G41	Eaglelake	Mainstream	82Q41 MCH	ICH10	CK505 1.0	CV183-1	9LPRS525	NA	
G35	Glenwood	Mainstream	82G35 MCH	ICH8	CK505 1.0	CV183-1	9LPRS525	NA	
Q35	Bearlake	Mainstream	82Q35 MCH	ICH9	CK505 1.0	CV183-1	9LPRS525	NA	
Q33	Bearlake	Mainstream	82Q33 MCH	ICH9	CK505 1.0	CV183-1	9LPRS525	NA	
P35	Bearlake	Mainstream	82P35 MCH	ICH9	CK505 1.0	CV183-1	9LPRS525	NA	
P31	Bearlake	Mainstream	82P31 MCH	ICH9	CK505 1.0	CV183-1	9LPRS525	NA	
G33	Bearlake	Mainstream	82G33 MCH	ICH9	CK505 1.0	CV183-1	9LPRS525	NA	
G31	Bearlake	Mainstream	82G31 MCH	ICH9	CK505 1.0	CV183-1	9LPRS525	NA	
Q965	Broadwater	Mainstream	82Q965 MCH	ICH8	CK505 1.0	CV183-1	9LPRS525	NA	
Q963	Broadwater	Mainstream	82Q965 MCH	ICH8	CK505 1.0	CV183-1	9LPRS525	NA	
G965	Broadwater	Mainstream	82G965 MCH	ICH8	CK505 1.0	CV183-1	9LPRS525	NA	
P965	Broadwater	Mainstream	82P965 MCH	ICH8	CK505 1.0	CV183-1	9LPRS525	NA	
946PL	Lakeport	Mainstream	82946PL MCH	ICH7	CK410/E	954101	954141	NA	
946GZ	Lakeport	Mainstream	82946GZ MCH	ICH7	CK410/E	954101	954141	NA	
945G	Lakeport	Mainstream	82945G MCH	ICH7	CK410/E	954101	954141	NA	
945P	Lakeport	Mainstream	82945P MCH	ICH7	CK410/E	954101	954141	NA	
945PL	Lakeport	Mainstream	82945PL MCH	ICH7	CK410/E	954101	954141	NA	
945GT	Lakeport	Mainstream	82945GT MCH	ICH7	CK410/E	954101	954141	NA	

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IDT Clock Solutions for Intel Notebook Chipsets

Chipset	Code Name	Category	Northbridge	Southbridge	Main Clock Spec	IDT Main Clock	IDT Alternate		Notes
							Main Clock	Buffer Spec	
QS57	Ibex Peak-M	Performance	BD82QS57 (PCH)	N/A	CK505 1.1	9LRS3187	9LRS4157 9LRS4167	N/A	
QM57	Ibex Peak-M	Performance	BD82QM57 (PCH)	N/A	CK505 1.1	9LRS3187	9LRS4157 9LRS4167	N/A	
PM57	Ibex Peak-M	Performance	BD82PM57 (PCH)	N/A	CK505 1.1	9LRS3187	9LRS4157 9LRS4167	N/A	
PM55	Ibex Peak-M	Performance	BD82PM55 (PCH)	N/A	CK505 1.1	9LRS3187	9LRS4157 9LRS4167	N/A	
HM57	Ibex Peak-M	Mainstream	BD82HM57 (PCH)	N/A	CK505 1.1	9LRS3187	9LRS4157 9LRS4167	N/A	
HM55	Ibex Peak-M	Mainstream	BD82HM55 (PCH)	N/A	CK505 1.1	9LRS3187	9LRS4157 9LRS4167	N/A	
PM45	Cantiga	Performance	82PM45 (MCH)	ICH9M	CK505 1.0	9LRS3165	9LPRS397	N/A	
GS45	Cantiga	Performance	82GS45 (GMCH)	ICH9M	CK505 1.0	9LRS3165	9LPRS397	N/A	
GS40	Cantiga	Value	82GS40 (GMCH)	ICH9M	CK505 1.0	9LRS3165	9LPRS397	N/A	
GM45	Cantiga	Mainstream	82GM45 (GMCH)	ICH9M	CK505 1.0	9LRS3165	9LPRS397	N/A	
GL40	Cantiga	Value	82GL40 (GMCH)	ICH9M	CK505 1.0	9LRS3165	9LPRS397	N/A	
PM965	Crestline	Performance	82965PM (MCH)	ICH8M	CK505 1.0	9LRS3165	9LPRS397	N/A	
GM965	Crestline	Mainstream	82965GM (GMCH)	ICH8M	CK505 1.0	9LRS3165	9LPRS397	N/A	
GL960	Crestline	Value	82960GL (GMCH)	ICH8M	CK505 1.0	9LRS3165	9LPRS397	N/A	
945PM	Calistoga	Performance	82945PM (MCH)	ICH7M	CK410M	954201	954206	N/A	Using standard clock requires SSCG for Graphics
945GSE	Calistoga	Mainstream	82945GSE (GMCH)	ICH7M	CK410M	954201	954206	N/A	Using standard clock requires SSCG for Graphics
945GMS	Calistoga	Mainstream	82945GMS (GMCH)	ICH7M	CK410M	954201	954206	N/A	Using standard clock requires SSCG for Graphics
945GM/E	Calistoga	Mainstream	82945GM/E (GMCH)	ICH7M	CK410M	954201	954206	N/A	Using standard clock requires SSCG for Graphics
943GML	Calistoga	Value	82943GML (GMCH)	ICH7M	CK410M	954201	954206	N/A	Using standard clock requires SSCG for Graphics
940GML	Calistoga	Value	82940GML (GMCH)	ICH7M	CK410M	954201	954206	N/A	Using standard clock requires SSCG for Graphics
915GMS	Alviso-GM	Mainstream	82915GMS (GMCH)	ICH6M	CK410M	954201	954206	N/A	Using standard clock requires SSCG for Graphics
915GM	Alviso-GM	Mainstream	82915GM (GMCH)	ICH6M	CK410M	954201	954206	N/A	Using standard clock requires SSCG for Graphics
910GML	Alviso-GM	Value	82910GML (GMCH)	ICH6M	CK410M	954201	954206	N/A	Using standard clock requires SSCG for Graphics
915PM	Alviso	Performance	82915PM (MCH)	ICH6M	CK410M	954201	954206	N/A	Using standard clock requires SSCG for Graphics
855PM	Odem	Performance	82855PM (MCH)	ICH4M	CK408	950201	950211	N/A	
855GME	Montara-GM	Value	82855GME (MCH)	ICH4M	CK408	950201	950211	N/A	
855GM	Montara-GM	Mainstream	82855GM (GMCH)	ICH4M	CK408	950201	950211	N/A	
852PM	Montara-GM	Value	82852PM (MCH)	ICH4M	CK408	950201	950211	N/A	
852GMV	Montara-GM	Value	82852GMV (GMCH)	ICH4M	CK408	950201	950211	N/A	
852GME	Montara-GM	Value	82852GME (GMCH)	ICH4M	CK408	950201	950211	N/A	
852GM	Montara-GM	Value	82852GM (GMCH)	ICH4M	CK408	950201	950211	N/A	
845MZ	BrookdaleMZ	Mainstream	82845 (MCH)	ICH3M	CK408	950201	950211	N/A	
845MP	BrookdaleM	Mainstream	82845 (MCH)	ICH3M	CK408	950201	950211	N/A	

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IDT Clock Solutions for Intel Server/Workstation Chipsets

Chipset	Code N/Ame	Category	Northbridge	Southbridge	Number of Processors	Main Clock Spec	IDT Main Clock	IDT AlterN/Ate Main Clock	Buffer Spec	IDT Buffer	Notes
3000	Mukilteo	Server	3010 MCH	ICH7	1	CK410	9E4101	9LPRS525	DB400v2E DB800v2E	9DB403 9DB803	
3010	Mukilteo 2	Server	3010 MCH	ICH7	1	CK505 1.0	CV183-1	9LPRS525	DB400v2E DB800v2E	9DB403 9DB803	
3200	Bigby	Server	3200 MCH	ICH9	1	CK505 1.0	CV183-1	9LPRS525	DB400v2E DB800v2E	9DB403 9DB803	
3210	Bigby	Server	3210 MCH	ICH9	1	CK505 1.0	CV183-1	9LPRS525	DB400v2E DB800v2E	9DB403 9DB803	
3400	Ibex Peak	Server	3400 PCH	N/A	1	CK505 1.1	9LRS3187	9LRS4157 9LRS4167	N/A		
3420	Ibex Peak	Server	3420 PCH	N/A	1	CK505 1.1	9LRS3187	9LRS4157 9LRS4167	N/A		
3450	Ibex Peak	Server	3450 PCH	N/A	1	CK505 1.1	9LRS3187	9LRS4157 9LRS4167	N/A		
5000P	Blackford	Server	5000P MCH	6311ESB 6321ESB	1-2	CK410B	932S421	932S422 932S431	DB400v2E DB800v2E DB1200G DB1900G	9DB403 9DB803 9FG1201 9FG1901	
5000V	Blackford	Server	5000V MCH	6311ESB 6321ESB	1-2	CK410B	932S421	932S422 932S431	DB400v2E DB800v2E DB1200G DB1900G	9DB403 9DB803 9FG1201 9FG1901	
5000X	Greencreek	Server, Workstation	5000X MCH	6311ESB 6321ESB	1-2	CK410B	932S421	932S422 932S431	DB400v2E DB800v2E DB1200G DB1900G	9DB403 9DB803 9FG1201 9FG1901	
5100	San Clemente	Server	5100 MCH	ICH9 ICH10	1-2	CK410B	932S421	932S422 932S431	DB400v2E DB800v2E DB1200G DB1900G	9DB403 9DB803 9FG1201 9FG1901	
5400	Seaburg	Server, Workstation	5400 MCH	6311ESB 6321ESB	2	CK410B+	932S421	932S422 932S431	DB400v2E DB800v2E DB1200 DB1900G	9DB403 9DB803 9DB1200 9FG1901	
5500	Tylersburg	Server	5500 IOH	ICH9 ICH10	1-2	CK410B+ CK509B	932S421 932S509	932S422 932S431	DB400v2E DB800v2E DB1200G DB1900G	9DB403 9DB803 9FG1201 9FG1901	
5520	Tylersburg	Server	5520 IOH	ICH9 ICH10	1-2	CK410B+ CK509B	932S421 932S509	932S422 932S431	DB400v2E DB800v2E DB1200G DB1900G	9DB403 9DB803 9FG1201 9FG1901	
7300	Clarksboro	Server	7300 MCH	6321ESB	4	CK409B	932S208		DB400v2E DB800v2E	9DB403 9DB803	
955X	Lakeport	Workstation	82955X MCH	ICH7	1	CK410	954101	9LPRS525	DB400v2E DB800v2E	9DB403 9DB803	

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IDT Clock Solutions for Intel Server/Workstation Chipsets

Chipset	Code N/Ame	Category	Northbridge	Southbridge	Number of Processors	Main Clock Spec	IDT Main Clock	IDT AlterN/Ate Main Clock	Buffer Spec	IDT Buffer	Notes
975X	Glenwood	Workstation	82975X MCH	ICH7	1-2	CK410	954101	9LPRS525	DB400v2E DB800v2E	9DB403 9DB803	
E7205	Granite Bay	Workstation	7205 MCH		1	CK408B	932S203		DB400v2E DB800v2E	9DB403 9DB803	
E7210	Dempsey	Server	7210 MCH	ICH5	1	CK409B	932S208		DB400v2E DB800v2E	9DB403 9DB803	
E7221	Dempsey	Server	7221 MCH	ICH5	1	CK409B	932S208		DB400v2E DB800v2E	9DB403 9DB803	
E7230	Dempsey	Server	7230 MCH	ICH5	1	CK409B	932S208		DB400v2E DB800v2E	9DB403 9DB803	
E7320	Lindenhurst	Server	7320 MCH	ICH5	1-2	CK409B	932S208		DB400v2E DB800v2E	9DB403 9DB803	
E7500	Plumas	Server	7500 MCH	ICH5	1-2	CK409B	932S208		DB400v2E DB800v2E	9DB403 9DB803	
E7501	Plumas	Server	7501 MCH	ICH5	1-2	CK409B	932S208		DB400v2E DB800v2E	9DB403 9DB803	
E7505	Placer	Server, Workstation	7505 MCH	ICH5	1-2	CK409B	932S208		DB400v2E DB800v2E	9DB403 9DB803	
E7520	Lindenhurst	Server	7520 MCH	ICH5	1-2	CK409B	932S208		DB400v2E DB800v2E	9DB403 9DB803	
E7525	Tumwater	Workstation	7525 MCH	ICH5	1-2	CK409B	932S208		DB400v2E DB800v2E	9DB403 9DB803	
E8500	Twin Castle	Server	8500MCH	ICH5	1-2	CK409B	932S208		DB400v2E DB800v2E	9DB403 9DB803	
X38	Bearlake	Workstation	82X38 MCH	ICH9	1	CK505 1.0	CV183-1	9LPRS525	DB400v2E DB800v2E	9DB403 9DB803	
X58	Tylersburg	Workstation	82X58 MCH	ICH10	1	CK505 1.0	CV183-1	9LPRS525	DB400v2E DB800v2E	9DB403 9DB803	

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IDT Clock Solutions for Intel Embeddeds										
Chipset	Code Name	Category	Northbridge	Southbridge	Main Clock Spec	IDT Main Clock	IDT Alternate Main Clock	Buffer Spec	IDT Buffer	Notes
845	Brookdale	Desktop	82845 Memory Controller Hub	ICH2	CK408	950201AFLF	950211BFLF	N/A	N/A	
845E	Brookdale	Desktop	82845E Memory Controller Hub	ICH4	CK408	950201AFLF	950211BFLF	N/A	N/A	
845GV	Brookdale	Desktop	82845GV Memory Controller Hub (GMCH)	ICH4	CK408	950201AFLF	950211BFLF	N/A	N/A	
865G	Springdale	Desktop	82865G Graphics and Memory Controller Hub (GMCH)	ICH5	CK409	952601	N/A	N/A	N/A	
875P	Canterwood	Desktop	82875P Memory Controller Hub	6300ESB IOH	CK409	952601	N/A	N/A	N/A	
915GV	Granstdale	Desktop	82915GV Graphic Memory Controller Hub (GMCH)	ICH6	CK410	9E4101	N/A	N/A	N/A	
945G	Lakeport	Desktop	82945G Graphics Memory Controller Hub (GMCH)	ICH7 or ICH7R	CK410	9E4101	N/A	N/A	N/A	
945GC	Lakeport	Desktop	82945GC Graphics Memory Controller Hub (GMCH)	ICH7 or ICH7R	CK410	9E4101	N/A	N/A	N/A	
G41	Eaglelake	Desktop	82G41 Graphic Memory Controller Hub (GMCH)	ICH7	CK505 1.0	9EPRS525 - 56pin 9ERS3165 - 64pin	9ERS3125 - 56pin	N/A	N/A	
G45	Eaglelake	Desktop	82G45 Graphic Memory Controller Hub (GMCH)	ICH10	CK505 1.0	9EPRS525 - 56pin 9ERS3165 - 64pin	9ERS3125 - 56pin	N/A	N/A	
Q35	Bearlake	Desktop	82Q35 Graphics Memory Controller Hub (GMCH)	ICH9 or ICH9 DO	CK505 1.0	9EPRS525 - 56pin 9ERS3165 - 64pin	9ERS3125 - 56pin	N/A	N/A	
Q45	Eaglelake	Desktop	82Q45 Graphics Memory Controller Hub (GMCH)	ICH10DO	CK505 1.0	9EPRS525 - 56pin 9ERS3165 - 64pin	9ERS3125 - 56pin	N/A	N/A	
Q965	Broadwater	Desktop	82Q965 Graphics Memory Controller Hub (GMCH)	ICH8 or ICH8 DO	CK505 1.0	9EPRS525 - 56pin 9ERS3165 - 64pin	9ERS3125 - 56pin	N/A	N/A	
440BX AGPset	440BX	Legacys	82443BX AGP Host Bridge Controller	82371AB PCI-ISA Bridge	N/A	9248AG-92LF	N/A	N/A	N/A	
440MX	440MX	Legacys	440BX AGPset core architecture + PIIX4 Southbridge in a single chip	N/A	N/A	9248AG-92LF	N/A	N/A	N/A	
810	Whitney	Legacys	82810 GMCH	82801 ICH	N/A	9250BF-27	N/A	N/A	N/A	
810E	Whitney	Legacys	810E2 Graphics and AGP Memory Controller Hub (GMCH)	ICH2 - 82801BA	N/A	9250BF-27	N/A	N/A	N/A	
815	Solano	Legacys	82815 Graphics and AGP Memory Controller Hub (GMCH)	ICH - 82801AA	N/A	9250BF-27	N/A	N/A	N/A	
815E	Solano	Legacys	82815 Graphics and AGP Memory Controller Hub (GMCH)	ICH2 - 82801BA	N/A	9250BF-27	N/A	N/A	N/A	
852GM	Montara	Legacys	852GM Memory Controller Hub (GMCH)	ICH4	CK408	950812CGLF	950810CGLF	SSCG	91718	
852GME	Montara	Legacys	852GME Memory Controller Hub (GMCH)	ICH4	CK408	950812CGLF	950810CGLF	SSCG	91718	
855GME GMCH and 6300ESB ICH	Montara	Notebook	855GME Graphics Memory Controller Hub (GMCH)	6300ESB IOH	CK408	950812CGLF	950810CGLF	SSCG	91718	
855GME GMCH and ICH4	Montara	Notebook	855GME Graphics Memory Controller Hub (GMCH)	ICH4	CK408	950812CGLF	950810CGLF	SSCG	91718	
US15W	Poulsbo	Netbook	US15W System Controller Hub (SCH)	Not applicable (integrated GMCH and ICH)	CK540, CK610	9UMS9001, 9EMS9633	N/A	N/A	N/A	

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IDT Clock Solutions for Intel Embeddeds										
Chipset	Code Name	Category	Northbridge	Southbridge	Main Clock Spec	IDT Main Clock	IDT Alternate Main Clock	Buffer Spec	IDT Buffer	Notes
Mobile 910GMLE	Alviso	Notebook	910GMLE Graphics Memory Controller Hub (GMCH)	ICH6M	CK410M	9EPRS525 - 56pin 9ERS3165 - 64pin	9ERS3125 - 56pin 9LPRS397 - 72pin	N/A	N/A	CK505 recommended for power savings
Mobile 915GME	Alviso	Notebook	915GME Graphics Memory Controller Hub (GMCH)	ICH6M	CK410M	9EPRS525 - 56pin 9ERS3165 - 64pin	9ERS3125 - 56pin 9LPRS397 - 72pin	N/A	N/A	CK505 recommended for power savings
Mobile 945GME	Calistoga	Notebook	82945GME Graphics Memory Controller Hub (GMCH)	ICH7M or ICH7M DH	CK410M	9EPRS525 - 56pin 9ERS3165 - 64pin	9ERS3125 - 56pin 9LPRS397 - 72pin	N/A	N/A	CK505 recommended for power savings
Mobile 945GSE	Calistoga	Notebook	82945GSE Graphics Memory Controller Hub (GMCH)	ICH7M	CK410M	9EPRS525 - 56pin 9ERS3165 - 64pin	9ERS3125 - 56pin 9LPRS397 - 72pin	N/A	N/A	CK505 recommended for power savings
Mobile GL40	Cantiga	Notebook	GL40 Graphics Memory Controller Hub (GMCH)	ICH9M	CK505 1.0	9EPRS525 - 56pin 9ERS3165 - 64pin	9ERS3125 - 56pin 9LPRS397 - 72pin	N/A	N/A	
Mobile GLE960	Crestline	Notebook	82GLE960 Graphics Memory Controller Hub (GMCH)	ICH8M	CK505 1.0	9EPRS525 - 56pin 9ERS3165 - 64pin	9ERS3125 - 56pin 9LPRS397 - 72pin	N/A	N/A	
Mobile GM45	Cantiga	Notebook	GM45 Graphics Memory Controller Hub (GMCH)	ICH9M or ICH9M-Enhanced	CK505 1.0	9EPRS525 - 56pin 9ERS3165 - 64pin	9ERS3125 - 56pin 9LPRS397 - 72pin	N/A	N/A	
Mobile GME965	Crestline	Notebook	82GME965 Graphics Memory Controller Hub (GMCH)	ICH8M or ICH8M-Enhanced	CK505 1.0	9EPRS525 - 56pin 9ERS3165 - 64pin	9ERS3125 - 56pin 9LPRS397 - 72pin	N/A	N/A	
Mobile GS45	Cantiga	Notebook	GS45 Graphics Memory Controller Hub (GMCH)	ICH9M Enhanced SFF	CK505 1.0	9EPRS525 - 56pin 9ERS3165 - 64pin	9ERS3125 - 56pin 9LPRS397 - 72pin	N/A	N/A	
3010	Bearlake	Server	3010 Memory Controller Hub	ICH7R	CK505 1.0	9EPRS525 - 56pin 9ERS3165 - 64pin	9ERS3125 - 56pin	N/A	N/A	
3100	Piketon	Server	3100	Not applicable (integrated MCH and ICH)	CK505 1.1	9LRS3187	9LRS4157 9LRS4167	N/A	N/A	
3210	Bearlake	Server	3210 Memory Controller Hub	ICH9R	CK505 1.0	9EPRS525 - 56pin 9ERS3165 - 64pin	9ERS3125 - 56pin	N/A	N/A	
5000P	Blackford	Server	5000P Memory Controller Hub	6321ESB IOH	CK410B+	932S421	932S422 932S431	DB400 DB800 DB1200G DB1900G	9DB803 9FG1201 9FG1901	
5100	Bensely	Server	5100 Memory Controller Hub	ICH9R	CK410B+	932S421	932S422 932S431	DB400 DB800 DB1200GS DB1200	9DB403 9DB823 9FG1200-1 9DB1200	
5520	Tylersburg	Server	5520 I/O Hub	ICH10R	CK410B+	932S421	932S422 932S431	DB400 DB800 DB1200	9DB403 9DB803 9DB1200	
E7320	Lindenhurst	Server	E7320 Memory Controller Hub	6300ESB IOH	CK409B	932S208	N/A	DB400 DB800	9DB403 9DB803	
E7501	Clarksboro	Server	E7501 Memory Controller Hub	ICH3S	CK408B	932S203	N/A	N/A	N/A	
E7520	Lindenhurst	Server	E7520 Memory Controller Hub	6300ESB IOH	CK409B	932S208	N/A	DB400 DB800	9DB403 9DB803	

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